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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | CP-2019-08-16-51 **Date: 27-06-19** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, |
| **Address** | : | Yelahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvement of Roads and Drains at Ramanashree Apartment Road in Chowdeshwari Ward No-02. |
| **Agency** | : | Sri.N Lokanath Reddy, No.05, Kaveri Nagar, 7th Cross, Kavalu Byrasandra,R T Nagara(Post), Bangalore-32. |
| **Customer's Reference** | : | EE(YNK D)E-PMT-09/W.O/21/2019-20 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 24-06-19 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 (Part 1,2 3,4,5, 6,11):1988<br>IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4<br>IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5<br>IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5<br>IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6 |
| **Date of test** | : | 25-06-19 |
| **Environmental Conditions during test** | : | Temperature 26°C<br>Humidity 72% |

| SLNo. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 2.2 | – |
| 2 | Finess by Air permeablity method ($m^2$/kg,Min) | 248.5 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.11 | – |
| 4 | Standard Consistency (%) | 27.5% | Not specified |
| 5 | Initial Setting time | 185 minutes | Not less than 30 minutes |
| 6 | Final Setting time | 260 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) | 2mm | Not more than 10 mm |

AE-2
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**Note:**

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 90 days from the date of issue of test certificate

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CIVIL PRO BANGALORE Sig. Date

DR KARTHIK RECHAN
Authorized Signatory
Quality Manager


****End of Report****

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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2019-08-16-51** **Date: 23-07-19** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvement of Roads and Drains at Ramanashree Apartment Road in Chowdeshwari Ward No-02. |
| **Agency** | : | Sri.N Lokanath Reddy, No.05, Kaveri Nagar, 7th Cross, Kavalu Byrasandra,R T Nagara(Post), Bangalore-32. |
| **Customer's Reference** | : | EE(YNK D)E-PMT-09/W.O/21/2019-20 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 24-06-19 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 6, Determination of Compressive Strength, Clause 6 |
| **Date of test** | : | 25-06-19 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

**Compressive Strength**

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | 3 Days | 29.0N/mm$^2$ | Not less than 27 N/mm$^2$ |
| 2 | 7 Days | 38.5N/mm$^2$ | Not less than 37 N/mm$^2$ |
| 3 | 28 Days | 59N/mm$^2$ | Not less than 53 N/mm$^2$ |

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**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

Page 1/1
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Format No: CP/TF/01

## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2019-08-16-51** **Date: 27-06-19** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvement of Roads and Drains at Ramanashree Apartment Road in Chowdeshwari Ward No-02. |
| **Agency** | : | Sri.N Lokanath Reddy, No.05, Kaveri Nagar, 7th Cross, Kavalu Byrasandra,R T Nagara(Post), Bangalore-32. |
| **Customer's Reference** | : | EE(YNK D)E-PMT-09/W.O/21/2019-20 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample condition** | : | Satisfactory |
| **Date of Receipt** | : | 24-06-19 |
| **Sample Type** | : | 40mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 24-06-19 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**

**Total weight taken** : **15000** **grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 80 mm | 0 | 0 | 0.0 | 100 | 100 |
| 2 | 40 mm | 426 | 426 | 2.8 | 97.2 | 90-100 |
| 3 | 20 mm | 5856 | 6282 | 41.9 | 58.1 | 30-70 |
| 4 | 10 mm | 4228 | 10510 | 70.1 | 29.9 | 10-35 |
| 5 | 4.75 mm | 4226 | 14736 | 98.2 | 1.8 | 0-5 |
| 6 | Pan | 264 | 15000 | 100.0 | 0 | --- |

AE-2
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AE-2

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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2019-08-16-51** **Date: 26-06-19** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvement of Roads and Drains at Ramanashree Apartment Road in Chowdeshwari Ward No-02. |
| **Agency** | : | Sri.N Lokanath Reddy, No.05, Kaveri Nagar, 7th Cross, Kavalu Byrasandra,R T Nagara(Post), Bangalore-32. |
| **Customer Reference** | : | EE(YNK D)E-PMT-09/W.O/21/2019-20 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 24-06-19 |
| **Sample Type/ Size** | : | 20mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 24-06-19 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:**

**Total weight taken** : **5000** grams

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 40 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 20 mm | 277 | 277 | 5.5 | 94.5 | 90-100 |
| 3 | 10 mm | 2749 | 3026 | 60.5 | 39.5 | 25-55 |
| 4 | 4.75 mm | 1751 | 4777 | 95.5 | 4.5 | 0-10 |
| 5 | Pan | 223 | 5000 | 100 | 0 | - |

AE-2
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# TEST REPORT OF FINE AGGREGATE

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2019-08-16-51** **Date: 26-06-19** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvement of Roads and Drains at Ramanashree Apartment Road in Chowdeshwari Ward No-02. |
| **Agency** | : | Sri.N Lokanath Reddy, No.05, Kaveri Nagar, 7th Cross, Kavalu Byrasandra,R T Nagara(Post), Bangalore-32. |
| **Customer's Reference** | : | EE(YNK D)E-PMT-09/W.O/21/2019-20 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 24-06-19 |
| **Sample Type** | : | Fine Aggregate |
| **Reference to BIS codes** | : | IS 383 : 2016 (Specification for Coarse and fine Aggregates)<br>IS: 2386 :1963(Part - 1, 3) RA2012<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption |
| **Date of test** | : | 24-06-19 |
| **Total weight taken** | : | 1000 grams |

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Grading Zone I | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1 | 10 mm | 0 | 0 | 0.0 | 100.0 | 100 | 100 | 100 | 100 |
| 2 | 4.75 mm | 29 | 29 | 2.9 | 97.1 | 90-100 | 90-100 | 90-100 | 95-100 |
| 3 | 2.36 mm | 53 | 82 | 8.2 | 91.8 | 60-95 | 75-100 | 85-100 | 95-100 |
| 4 | 1.18 mm | 241 | 323 | 32.3 | 67.7 | 30-70 | 55-90 | 75-100 | 90-100 |
| 5 | 600 micron | 200 | 523 | 52.3 | 47.7 | 15-34 | 35-59 | 60-79 | 80-100 |
| 6 | 300 micron | 201 | 724 | 72.4 | 27.6 | 5-20 | 8-30 | 12-40 | 15-50 |
| 7 | 150 micron | 189 | 913 | 91.3 | 8.7 | 0-10 | 0-10 | 0-10 | 0-15 |
| 8 | Pan | 87 | 1000 | 100.0 | 0.0 | --- | --- | --- | --- |

**Result :The tested Sample Conforms to Grading Zone II**

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# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/07/2019

| | | |
|---|---|---|
| **Lab ID** | : | CP-2019-08-16-51 |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvement of Roads and Drains at Ramanashree Apartment Road in Chowdeshwari Ward No-02. |
| **Agency** | : | Sri.N Lokanath Reddy, No.05, Kaveri Nagar, 7th Cross, Kavalu Byrasandra,R T Nagara(Post), Bangalore-32. |
| **Customer's Reference** | : | EE(YNK D)E-PMT-09/W.O/21/2019-20 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 08-07-19 |
| **Customer ID** | : | Drain Bottom Slab Concrete |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M20 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 13/07/2019 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 06/07/2019 | 13/07/2019 | 151.02 X 150.02 X 149.96 | 22656 | 8.585 | 409.7 | 18.1 | 18.3 |
| 2 | Drain Bottom Slab Concrete | M20 | 06/07/2019 | 13/07/2019 | 151.90 X 150.90 X 150.23 | 22922 | 8.483 | 418.9 | 18.3 | |
| 3 | Drain Bottom Slab Concrete | M20 | 06/07/2019 | 13/07/2019 | 151.80 X 149.52 X 150.08 | 22697 | 8.551 | 421.6 | 18.6 | |

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig. Date


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# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/07/2019

| | | |
|---|---|---|
| **Lab ID** | : | CP-2019-08-16-51 |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvement of Roads and Drains at Ramanashree Apartment Road in Chowdeshwari Ward No-02. |
| **Agency** | : | Sri.N Lokanath Reddy, No.05, Kaveri Nagar, 7th Cross, Kavalu Byrasandra,R T Nagara(Post), Bangalore-32. |
| **Customer's Reference** | : | EE(YNK D)E-PMT-09/W.O/21/2019-20 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 08-07-19 |
| **Customer ID** | : | Drain Bottom Slab Concrete |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M20 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 13/07/2019 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 06/07/2019 | 13/07/2019 | 151.64 X 151.44 X 150.85 | 22964 | 8.585 | 434.8 | 18.9 | 18.8 |
| 2 | Drain Bottom Slab Concrete | M20 | 06/07/2019 | 13/07/2019 | 151.25 X 149.18 X 149.37 | 22563 | 8.483 | 428.1 | 19.0 | |
| 3 | Drain Bottom Slab Concrete | M20 | 06/07/2019 | 13/07/2019 | 150.81 X 150.83 X 151.41 | 22747 | 8.551 | 419.3 | 18.4 | |

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Quality Manager


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# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/07/2019

| | | |
|---|---|---|
| **Lab ID** | : | CP-2019-08-16-51 |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvement of Roads and Drains at Ramanashree Apartment Road in Chowdeshwari Ward No-02. |
| **Agency** | : | Sri.N Lokanath Reddy, No.05, Kaveri Nagar, 7th Cross, Kavalu Byrasandra,R T Nagara(Post), Bangalore-32. |
| **Customer's Reference** | : | EE(YNK D)E-PMT-09/W.O/21/2019-20 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 08-07-19 |
| **Customer ID** | : | Drain Bottom Slab Concrete |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M20 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 13/07/2019 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 06/07/2019 | 13/07/2019 | 150.86 X 149.23 X 150.76 | 22512 | 8.585 | 421.7 | 18.7 | 18.4 |
| 2 | Drain Bottom Slab Concrete | M20 | 06/07/2019 | 13/07/2019 | 149.39 X 151.73 X 149.28 | 22666 | 8.483 | 417.7 | 18.4 | |
| 3 | Drain Bottom Slab Concrete | M20 | 06/07/2019 | 13/07/2019 | 149.98 X 151.37 X 151.71 | 22702 | 8.551 | 412.1 | 18.2 | |

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Quality Manager


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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : CP-2019-08-16-51 **Date: 18/07/2019**

**Customer** : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

**Address** : Yelahanka Sub Division, BBMP, Bangalore.

**Project Name** : Improvement of Roads and Drains at Ramanashree Apartment Road in Chowdeshwari Ward No-02.

**Agency** : Sri.N Lokanath Reddy, No.05, Kaveri Nagar, 7th Cross, Kavalu Byrasandra,R T Nagara(Post), Bangalore-32.

**Customer's Reference** : EE(YNK D)E-PMT-09/W.O/21/2019-20

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 13-07-19

**Customer ID** : Drain Side Wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 18/07/2019

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M20 | 11/07/2019 | 18/07/2019 | 151.85 X 151.66 X 150.56 | 23030 | 8.585 | 431.9 | 18.8 | 18.5 |
| 2 | Drain Side Wall Concrete | M20 | 11/07/2019 | 18/07/2019 | 151.65 X 149.07 X 149.57 | 22606 | 8.483 | 412.1 | 18.2 | |
| 3 | Drain Side Wall Concrete | M20 | 11/07/2019 | 18/07/2019 | 149.53 X 149.04 X 149.02 | 22287 | 8.551 | 410.1 | 18.4 | |

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig. Date


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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/07/2019

| | | |
|---|---|---|
| **Lab ID** | : | CP-2019-08-16-51 |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvement of Roads and Drains at Ramanashree Apartment Road in Chowdeshwari Ward No-02. |
| **Agency** | : | Sri.N Lokanath Reddy, No.05, Kaveri Nagar, 7th Cross, Kavalu Byrasandra,R T Nagara(Post), Bangalore-32. |
| **Customer's Reference** | : | EE(YNK D)E-PMT-09/W.O/21/2019-20 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 13-07-19 |
| **Customer ID** | : | Drain Side Wall Concrete |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M20 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 18/07/2019 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall Concrete | M20 | 11/07/2019 | 18/07/2019 | 151.41 X 149.53 X 149.51 | 22640 | 8.585 | 419.3 | 18.5 | 18.6 |
| 2 | Drain Side Wall Concrete | M20 | 11/07/2019 | 18/07/2019 | 149.69 X 149.76 X 151.54 | 22418 | 8.483 | 421.3 | 18.8 | |
| 3 | Drain Side Wall Concrete | M20 | 11/07/2019 | 18/07/2019 | 151.77 X 149.57 X 150.92 | 22700 | 8.551 | 420.2 | 18.5 | |

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate

AE-2 A.E.E AE-02

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Page 1/1
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# TEST RESULTS OF STEEL

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2019-08-16-51** **Date: 29-06-19** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvement of Roads and Drains at Ramanashree Apartment Road in Chowdeshwari Ward No-02. |
| **Agency** | : | Sri.N Lokanath Reddy, No.05, Kaveri Nagar, 7th Cross, Kavalu Byrasandra,R T Nagara(Post), Bangalore-32. |
| **Customer's Reference** | : | EE(YNK D)E-PMT-09/W.O/21/2019-20 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 28-06-19 |
| **Sample Type** | : | Sunvik |
| **Reference to BIS codes** | : | IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012. |
| **Date of test:** | : | 28-06-19 |

| Sl.No | Identification of sample | Grade of the sample | Diameter of the steel bar | Weight of the sample | Yield stress | Tensile strength | Elongation | Bend test | Rebend test |
|---|---|---|---|---|---|---|---|---|---|
| | | | (mm) | (kg/m) | (N/mm2) | (N/mm2) | (%) | | |
| 1 | Sunvik | Fe500 | 8 | 0.392 | 512 | 652 | 20.0% | Satisfactory | Satisfactory |
| 2 | Sunvik | Fe500 | 10 | 0.619 | 528 | 672 | 20.0% | Satisfactory | Satisfactory |
| 3 | Sunvik | Fe500 | 12 | 0.891 | 544 | 668 | 20.0% | Satisfactory | Satisfactory |

**Note:**

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CIVIL PRO BANGALORE Sig Date

R KARTHIK RECHAN
Authorized Signatory
Quality Manager


*End of Report*

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# TEST REPORT OF PRECAST COVER SLAB

**Lab ID** : CP-2019-08-16-51 **Date: 05-07-19**

**Customer** : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

**Address** : Yelahanka Sub Division, BBMP, Bangalore.

**Project Name** : Improvement of Roads and Drains at Ramanashree Apartment Road in Chowdeshwari Ward No-02.

**Agency** : Sri.N Lokanath Reddy, No.05, Kaveri Nagar, 7th Cross, Kavalu Byrasandra,R T Nagara(Post), Bangalore-32.

**Customer's Reference** : EE(YNK D)E-PMT-09/W.O/21/2019-20

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 01-07-19

**Sample Type /Size** : Precast Cover Slab(100 mm)

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete

**Date of test** : 01/07/2019

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | (kg) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| 1 | Cover Slab-1 | 75.51 | 100.5 | 1.117 | 4477 | 80.9 | 18.1 | 16.8 | 21.0 |
| 2 | Cover Slab-2 | 75.49 | 100.52 | 1.124 | 4475 | 82.3 | 18.4 | 17.1 | 21.4 |
| 3 | Cover Slab-3 | 75.50 | 100.51 | 1.121 | 4476 | 81.5 | 18.2 | 16.9 | 21.2 |

**Note:**

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Page 1/1
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